

PRODUCT DATASHEET

ES-BR-C29-S003-V015

146 mm Precision Transmission Component

Rotary Table Bearings | ES-BR-RT01 Rotary Table Bearing Series

Product Overview

146 mm Precision Transmission Component with body Outer Diameter 146 mm, axial Dynamic Load Rating 56 kN and radial Dynamic Load Rating 42.5 kN.

Key Specifications

PARAMETER	VALUE	UNIT
Body Outer Diameter	146	mm
Axial Dynamic Load Rating	56	kN
Radial Dynamic Load Rating	42.5	kN
Mass	2.4	kg
Axial Static Load Rating	255	kN
Friction Torque	3	N·m
Inner Ring Counterbore Diameter	10	mm
Inner Ring Diameter	80	mm
Inner Ring Height H	23.35	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Axial Dynamic Load Rating	56	kN
Radial Dynamic Load Rating	42.5	kN
Friction Torque	3	N·m
Limiting Speed	530	r/min
Rotation Accuracy P2	1.5	μm
Axial Static Load Rating	255	kN
Radial Static Load Rating	100	kN
Rotation Accuracy P4	3	μm
MECHANICAL		
Body Outer Diameter	146	mm
Mass	2.4	kg
Inner Ring Height H	23.35	mm

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Inner Ring Diameter	80	mm
INTEGRATION		
Inner Ring Mounting Hole Count	10	
Inner Ring Mounting Hole Diameter	5.6	mm
Mounting Screw Specification	12x30°	
Tightening Torque	8.5	Nm
Inner Ring Counterbore Diameter	10	mm
Outer Ring Mounting Hole Diameter	4.6	mm
Inner Ring Hole Pitch	5.2	mm
Outer Ring Mounting Hole Count	12	
Inner Ring Lifting Hole Count	2	

Dimensional & Integration Overview

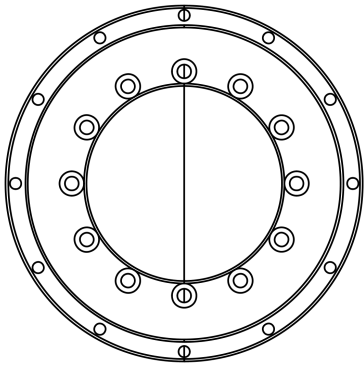
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Outer Diameter	146	mm
Mass	2.4	kg
Inner Ring Height H	23.35	mm
Inner Ring Diameter	80	mm
Inner Ring Mounting Hole Count	10	
Inner Ring Mounting Hole Diameter	5.6	mm

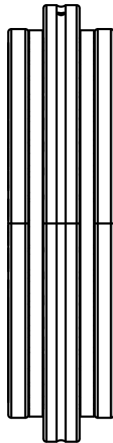
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Dimension parameter e	Not specified

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- 01** Specifications are subject to change without notice. Verify the current product configuration before final design release.
- 02** 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.